

ELMOTAMYEZ QUESTIONS BANK

SCIENCE

على مقررات شهر نوفمبر

MRS. AMIRA AHMED

CARTOON SCIENCE













EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 3 & 4

0	QUES	STION 01	CI	hoose The	Corr	rect Answe	r	
1		Light is		30	الله المريد	5,85	3	
150	a	takes up space	(b)	is made up of matter	©	is a form of energy	(d)	has a magnetic force
(2)		Which type	of en	ergy does the	e sun	provide Earth	7	
	a	light	(b)	gravity	©	chemical	d	mechanical
3		Which of th	e folic	owing is a sou	ırce o	f light?		
	a	th <mark>e m</mark> oon	(b)	our eyes	©	fire	d	a mirror
(4)	_	What prope	rty of	light helps y	ou se	e yourself in a	mirr	or?
	a	refraction	(b)	reflection	©	absorption	d	relativity
(5)				best explains	why	you can see y	ours	<mark>elf</mark> when you
	a	look at a min Light is refract through the m	ed as i	t passes	(b)	Light is reflecte	ed, bo	uncing off the
150	©	Light is refract mirror.		uncing off the	d	Light is reflecte the mirror.	d as it	passes through
6		What type of	of surf	face scatters I	ight u	inevenly?	3	
3	(3)	shiny	(b)	rough	©	smooth	(1)	tr <mark>anspare</mark> nt
7		What word i surface and			light	as it strikes a s	moo	th, shiny
	(2)	shadow	b	energy	0	reflection	d	wave length
(8)		What happe	ens to	light when it	hits a	a roug <mark>h sur</mark> fac	e?	
74-	(3)	scattering	(b)	reflection	0	absorption	d	refraction
(9)		Which set o	f obje	cts below wo	uld a	ll reflect light	well?	7.55°
	a	aluminum foil,	brick v	wall, mirror	b	metal spoon, to	ee tru	ınk, aluminum
25	©	mirror, metal s	poon,	brick wall	(d)	metal spoon, m	irror,	aluminum foil
10	The	organ respon	nsible	for the sense	of sig	ght		
4	a	the ear	(b)	the tongue	©	the nose	(1)	the eye
(11)		energy aff	ects o	n sensory rec	epto	rs in the eye, c	ausir	ng a vision.
	(3)	Sound	(b)	Kinetic	©	Light	d	Magnetic



SCIENCE QUESTIONS BANK





12	Which of the following organs are working together for seeing different objects?									
	(3)	Nose and brain	(b)	Eyes and brain	0	Ears and brain	d	Tongue and brain		
(13)	Eacl	h of the follow	wing	is considered	a sou	urce of light ex	ccept			
	a	the fire	(b)	the sun	©	the lamp	d	the eye		
(14)	The	re is a tapetu	m luci	dum in all of	the fo	ollowing excep	ot	· 25		
20	a	the horse	(b)	the cat	©	the human	d	the dog		
(15)	All t	he following	consi	dered as a so	urce	of light except				
21	a	sun	(b)	candle	©	fire	d	moon		
(16)	All	of the f <mark>ollow</mark> i	ng are	e transparent	obje	cts, except				
	a	gl <mark>ass</mark>	(b)	water	©	paper	d	air		
17		ey <mark>es</mark> help us perceiving wh				/hat is the org s?	an re	esponsible		
	a	The lungs	(b)	esophagus	©	stomach	d	The brain		
(18)		<mark>e</mark> yes have	a thir	membrane i	n the	back of the ey	e.			
	(3)	Human	b	Tarsier monkey	©	Snake	d	Bats		
19	Both	n tarsier and	owl,							
	(3)	birds		can fly	©	are nocturnal animals	d	can swim		
20	Each of human, fishing cat and tarsier,									
xt Concept	a	has an excelle	ent visi	on.	b	becomes more	activ	e at <mark>night</mark>		
100	0	has a mirror-li eye			(1)	has two eyes a	-			
21]	o get inform	ation	about their su	irrou	ndings in		
70-	(a)	dark eyes	(b)	tongue	©	ears	d	hands		
22	Read	THE PARTY NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PARTY NAMED IN	ing a	re common t	ypes o	of communicat	tion i	n		
	a	human	(b)	animals	©	birds	d	plants		
(23)	Aniı	mals can com	muni	cate with eac	h oth	er through				
6	(3)	sounds and light		eating		writing	d	reading		
24		ses organs co understandii		nformation a	nd se	nd signals to .	fc	or processing		
	a	stomach	(b)	brain	©	hands	d	ear		



- 25 Human and animals useto communicate
 - sound
- b light
- movements
- all the previous answers

Complete using words between brackets

- Cats' eyes are adapted to night vision due to the presence of behind their eyes (tapetum lucidum small eyes).
- The eyes glows in the dark. (snake fishing cat).
- When light falls on an object and the light....., so we can see this object. (refracts reflects)
- The eye sends messages to through the nerves. (Brain spinal cord).
- Human use to see in the dark. (medical glasses night goggle)
- The pupils of eyes of nocturnal animals usually openedthan the pupil of human eye (wider less)
- When light is absorbed by an opaque object,is formed. (Tapetum lucidum shadow)
- Nocturnal animals have eyes than human (bigger smaller)
- is from the opaque objects. (Carton Glass)
- Mirror like membrane of fishing cat eyes considered as (structural adaptation behavioural adaptation).
- Light travel in (straight curved line)
- tapetum lucidum is a (thin thick) layer at the back of some animal's eye reflect light.
- opaque objects (allow don't allow) light to pass through and objects (can cannot) be seen through them.
- if the surface is smooth the light rays will reflect in (one different) direction.
- materials allow most light to pass through and objects can be seen clearly through them (opaque transparent)



The energy which must present to make our eyes able to see objects 17 isenergy (light – sound). 18 if the surface is (smooth - rough) the rays will scatter or diffuse in different directions. From the organs that we can use to send or receive the code (Eye – heart) 20 Human is similar to fireflies in using To communicate (light – sound) 21) Bats makes (high – low) pitched sound 22 Humpback songs have low-pitches sounds which travel through (warm - cold) water. 23are forms of codes (thumb up and down - swimming). 24 Fireflies use theirto form different flash patterns (eyes-wings) 25 Humpback whales communicate with each other through thesense (hearing - smelling). 26season is considered a feeding season of humpback whales (winter – summer) 27 The dancing bee moves in a.....patterns (circle – eight) In morse code the beeps known as dots 28 (long beeps - short beeps). 29ants are responsible for locating food (nurse ants - scout ants). Fireflies produce light because of 30 (chemical reaction – light reflection). The honey bee makes (one dance – three dances or more) if the **31** flower is a little farther away. Solider ants are responsible for **32** (warning from dangers - locating food). In summer the song of humpback whales has 33 (high-pitched – low pitched) sounds. Sense organs collect information then send it to brain through 34) (hands -nerves)

Humpback whale's songs have high-pitched sound in

(feeding season - matting season)

(35)





36 The communication method of bee is (dancing – flash light).

	QUESTION 03 Put (V) or (x) or the following statement	CS:
1	The moon is a source of light.	00
2	Both humans and animals need a source of light to see	1
3	Nocturnal animals have eyes that are bigger than the human eye.	(
4	Some animals can see at night, such as a wild cat	J.
5	Human has a tapetum lucidum in his eye to help him see at night	(
6	Wood is a transparent object that allows light to pass through it.	(
7	Bats use their sense of smell to avoid dangers	1
8	Tapetum lucidum of fishing cat considered as a structural adaptation.	j.
9	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface.	2(
O)	Fishing cat has a mirror-like membrane on the back of the e <mark>ye</mark> .	0
11)	In order to translate the code, the brain must identify it	્
12	Animals can use more than one senses to communicate with each other	6
13)	Bees can know the sweet taste by their sense of smell	(
4	Both Morse code and humpback whale depend on sound energy	(
15)	Human use light to communicate such as using traffic lights	(
	QUESTION 04 Complete the following sentences	
D	Some animals have the ability to see in the dark because of	
2	andare sources of light.	
3	Human needto see in the dark.	
4	Mirror and moonlight falling on them.	
5	when light fall from source of light on object, itto our eyes	0
6	will form when light hits opaque objects and no light pass	





7	light is a visible form of energy that travels in form of	550									
8	I saw an eye shining in the dark, this animal could bein their communication.										
9											
Next Conce	do special dances to tell others the direct distances to food and water.	tion and									
11	Morse code consists ofanda										
12	produce flash lights to warn off predators or to at	t <mark>ract a mate</mark>	7								
13	Whales useenergy to communicate but fireflic	es use									
14	In Morse code short beeps known asand long beeps										
15	communicate with each other by using	the songs.									
16	ants are responsible for sending smelly meamount of food decreases.	ssa <mark>ge</mark> when									
1	QUESTION 05 Write the scientific term	150									
1	they are Objects that don't allow light to pass through.	300)								
2	it is the organ of sight that is affected by light in human and animals.	2	12								
3	A device (tool) human use to see in the dark.	()								
4	The main source of light.	7 ()								
(5)	it is a visible form of energy that travels in form of waves.	sot and	~)								
6	it is from nocturnal animals can turn its head 180 degree and has long tail .	(16)	1								
7	it is a thin layer at the back of some animals eyes reflects light.	51 %)								
8 Next Concep	they are materials objects that allow light to pass through.	1 6.35	361								
9	Sense organ that can detect light energy .	P1 55	L								
10	It is a device help blind person in walking by emitting	130	20								





11)	It is a code that use symbols in a pattern to give a specific meaning according to the arrangement of letter in a word.	(36)	
12	It is a pattern that has meaning.	× 36)
13	It is a simple code consists of short beeps (dots) and long beeps(dashes).	NO SE	31
14	The short beeps of morse code.	57 355)
15	It is a code in form of sounds used to transfer information .	4 1 h	Á
	QUESTION 06	200	
1	Nocturnal animals can see in the dark	1	
2	When light fall on object, we can see it	Po n	
3	Fishing cat eyes glow in the dark) #5 TO	
4	Moon is not considered as a source of light		
5	We can see objects behind transparent materials	350 m	
6	We can see objects.		
7	The tapetum lucidum is very important in some nocturna	al animal.	
8	The human body forms a shadow when light falls on it.	6 NS	
9	The pupils of nocturnal animals' eyes open wider than h	uman's eyes	
10	When light fall on mirror it reflects in one direction	4 750 A	
ext Concept	Whales use hearing sense as songs tones	30	





Fire flies use its w	ings to form different flash patterns
People use a rescu	ue flare
The nurse ants se	nd smelly message to scout ants
People use signal	fires
Bees do special da	ances (figure – eight)
blind person uses	special cane during walking
Humans use read	ing, writing and speaking
QUESTION 07	What happened if ?
light fall on a bo	ook.
Nocturnal anim	als don't have tapetum lucidum.
Light falls on a	mirror.
Light falls on ro	ugh surface such as pa <mark>inted surfac</mark> e.
Light fall on tra	nsparent object as glass window.
£5	nspar <mark>ent object as glass window.</mark> want to warm off predator or attract mate.
When fire flies	
When fire flies of the control of th	want to warm off predator or attract mate.
When fire flies of the sound way	want to warm off predator or attract mate. nes close to the colony of ants.





he cane of a blind person picks up echo.	
	80 SE
scout bee becomes far away from the flowe	36

- Complete after noticing the following figure What happens until you see this apple?
 - The light falls on thethen it is reflected on the eyes so the eyes transmit the message tothen he interprets it and translates it, so we see the apple.





- The surface in figure (a) is Because Because
- In the previous two figures, the falling and reflected rays show that light travels inlines.
- The surface in figure (a) may be...... (plastic - wood - mirror - cloth)

3 Classify the following in this table

(Mirror – cloth – metal – wood – paper)

Rough surface		Sm	ooth surfa	ice
750 %	p y	30 %	الأقيم	250
	30			



(Lenses – rock- wood – air – glass – metal – water – human)

Opaque objects	Transparent objects

(4) Choose from column (A) what suit it in both column (B):

	(A)	(B)			
1	Human	a	Reflect sun light .		
2	moon	(b)	the main source of light.		
3	fishing cats	©	are nocturnal animals that have excellent night vision.		
4	sun	d	need night vision goggle to see in the dark.		

Look at the following pictures then answer the questions

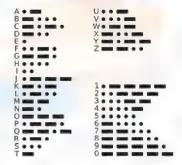
Rise the thumb up a kind of

- (a) codes
- (b) colours
- © waves
- d light



6 Look at the following pictures then answer the questions

This figure represents..... which is consists of



أنتهت الأسئلة مع أطيب الأمنيات بالنجاح والتوفيق



MODEL ANSWERS

SCIENCE

على مقررات شهر نوفمبر

BY

MRS. AMIRA AHMED

O CARTOON SCIENCE







EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 3 & 4

10	QUES	TION 01	CI	noose The	Corr	ect Answe	r	
		Light is						
(1)	a	takes up space	(b)	is made up of matter	©	is a form of energy	d	has a magnetic force
(2)		Which type	of en	ergy does the	e sun	provide Earth	?	
	a	light	(b)	gravity	©	chemical	d	mechanical
(3)	_	Which of the	folic	wing is a sou	irce o	f light?		
(a)	a	the moon	(b)	our eyes	©	<u>fire</u>	d	a mirror
		What prope	rty o	f light helps y	ou se	e yourself in a	mirr	or?
	a	refraction	(b)	reflection	©	absorption	d	relativity
		Which states look at a mir		best explains	s why	you can see y	ours	<mark>elf</mark> when you
(5)	a	Light is refracte through the mi		passes	b	Light is refracte mirror.	d, bou	incing off the
	©	Light is reflecte mirror.	ed, bou	ıncing off the	d	Light is reflecte the mirror.	d <mark>as</mark> it	passes through
(6)		What type of	of sur	face scatters	light	unevenly?		
	a	shiny	b	<u>rough</u>	0	smooth	d	transparent
7	_	What word surface and			e ligh	t as it strikes a	smo	oth, shiny
•	(3)	shadow	b	energy	©	<u>reflection</u>	d	wave length
(8)		What happe	_		_	a rough surfa	ce?	
	a	scattering	(b)	reflection	©	absorption	d	refraction
(a)	(Which set o	f obje	ects below we	ould a	III reflect light	well	?
•	a	aluminum foil,	brick v	wall, mirror	b	metal spoon, tr foil	ee tru	nk, aluminum
	©	mirror, metal s	poon,	brick wall	(d)	metal spoon, m	irror, a	aluminum foil
(10)	The	organ respon	sible	for the sense	of sig	ght		
0	a	the ear	(b)	the tongue	©	the nose	d	the eye
(11)		energy affe		n sensory red	eptor	s in the eye, c	ausir	ng a vision.
W	a	Sound	b	Kinetic	©	<u>Light</u>		Magnetic





(12)	Whi	ch of the follo	wing	g organs are	workii	ng together fo	r see	eing differei	ח	
	a	Nose and brain	b	Eyes and brain	©	Ears and brain	d	Tongue and brain	ł	
(13)	Each	of the follow	ing i	s considered	a sou	rce of light ex	cept			
	a	the fire	(b)	the sun	©	the lamp	d	the eye		
	There is a tapetum lucidum in all of the following except									
	a	the horse	(b)	the cat	©	the human	d	the dog		
(15)	All the following considered as a source of light except									
	a	sun	b	candle	©	fire	d	moon		
(16)	All o	of the followin	g are	transparent	t objec	ts, except				
	a	glass	(b)	water	©	<u>paper</u>	d	air		
		eyes help us s				_	an re	esponsible		
(17)	for p	erceiving wha	at we			7				
	a	The lungs	(b)	The esophagus	©	The stomach	(1)	The brain		
	*******	eyes have a	thin	membrane	in the	back of the ey	e.			
(18)	a	Human	b	Tarsier monkey	©	Snake	d	Bats		
	Both tarsier and owl,									
(19)	a	birds	(b)	can fly	©	are nocturnal animals	d	can swim		
	Each of human, fishing cat and tarsier,									
(20)	a	has an exceller	t visi	on.	(b)	becomes more	activ	e at night		
	©	has a mirror-lik eye	e mei	mbrane in its	d	has two eyes a	<u>dapte</u>	d for vision.		
Next Concept	Bats	use their	7	o get inform	ation	about their su	rrou	ndings in		
(21)	the o	dark								
	(a)	eyes	(b)	tongue	(c)	ears	(d)	hands		
(22)	Read Wor	ding and writi Id	ng a	re common t	ypes o	f communicat	ion i	n		
•	a	<u>human</u>	b	animals	©	birds	d	plants		
	Anir	nals can comn	nuni	cate with eac	ch oth	er through				
(23)	a	sounds and light	b	eating	©	writing	d	reading		
		ses organs coll				nd signals to		•••		
24		processing and	_	_		hands		007		
		Momach			()	nanns	\ ** /	ear		







Human and animals useto communicate

72	
L.Z	3

sound

b light

© movements



all the previous answers

QUESTION 02

Complete using words between brackets

- Cats' eyes are adapted to night vision due to the presence of behind their eyes (Tapetum lucidum small eyes).
- The eyes glows in the dark. (snake fishing cat).
- When light falls on an object and the light......so we can see this object. (refracts reflects)
- The eye sends messages to through the nerves. (brain spinal cord).
- 6 Human use to see in the dark (medical glasses night goggle)
- The pupils of eyes of nocturnal animals usually openedthan the pupil of human eye (wider less).
- When light is absorbed by an opaque object, is formed. (tapetum lucidum <u>shadow</u>).
- Nocturnal animals have eyes than human (bigger smaller).
- is from the opaque objects. (<u>Carton</u>- Glass).
- Mirror like membrane of fishing cat eyes considered as (<u>structural adaptation</u> behavioral adaptation).
- Light travel in (straight curved line).
- Tapetum lucidum is a (thin thick) layer at the back of some animal's eye reflect light.
- Opaque objects (allow <u>don't allow</u>) light to pass through and objects (can <u>cannot</u>) be seen through them.
- If the surface is smooth the light rays will reflect in (one different) direction.
-materials allow most light to pass through and objects can be seen clearly through them (opaque <u>transparent</u>).
- The energy which must present to make our eyes able to see objects is energy (<u>light</u> sound).





- if the surface is (smooth <u>rough</u>) the rays will scatter or diffuse in different directions.
- From the organs that we can use to send or receive the code (Eye heart).
- Human is similar to fireflies in using to communicate (<u>light</u> sound).
- 21) Bats makes (<u>high</u> low) pitched sound.
- Humpback songs have low- pitches sounds which travel through (warm cold) water.
- 23 are forms of codes (thumb up and down swimming).
- Fireflies use theirto form different flash patterns (eyes wings).
- Humpback whales communicate with each other through the sense (hearing smelling).
- season is considered a feeding season of humpback whales (winter summer).
- The dancing bee moves in a..... patterns (circle eight).
- In morse code the beeps known as dots (long beeps short beeps).
- 29 ants are responsible for locating food (Nurse ants scout ants).
- Fireflies produce light because of (chemical reaction light reflection)
- The honey bee makes (one dance three dances or more) if the flower is a little farther away.
- Solider ants are responsible for(warning from dangers locating food).
- In summer the song of humpback whales has (high low) pitched sounds.
- Sense organs collect information then send it to brain through........... (hands -nerves).
- Humpback whale's songs have high-pitched sound in (feeding season matting season).
- The communication method of bee is (dancing flash light).



Put ($\sqrt{}$) or (x) or the following statements:

1	The moon is a source of light.	×
2	Both humans and animals need a source of light to see	V
3	Nocturnal animals have eyes that are bigger than the human eye.	V
4	Some animals can see at night, such as a wild cat	V
5	Human has a tapetum lucidum in his eye to help him see at night	×
6	Wood is a transparent object that allows light to pass through it.	×
7	Bats use their sense of smell to avoid dangers	×
8	Tapetum lucidum of fishing cat considered as a structural adaptation.	V
9	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface.	V
Next Cont	Fishing cat has a mirror-like membrane on the back of the eye.	V
1	In order to translate the code, the brain must identify it	V
12	Animals can use more than one senses to communicate with each other	V
13	Bees can know the sweet taste by their sense of smell	×
14	Both Morse code and humpback whale depend on sound energy	V
15)	Human use light to communicate such as using traffic lights	V

QUESTION 04

Complete the following sentences

- Some animals have the ability to see in the dark because of <u>Tapetum</u> <u>lucidum</u>.
- sun , candle and fire are sources of light .
- 3 Human need <u>night vision goggles</u> to see in the dark.
- Mirror and moon <u>reflect</u> light falling on them.
- When light fall from source of light on object, it bounces off to our eyes.
- **Shadow** will form when light hits opaque objects and no light pass through the body.
- Iight is a visible form of energy that travels in form of waves.





- 8 I saw an eye shining in the dark, this animal could be cat (nocturnal animal).
- 9 Both fireflies and honey bees use the sense of <u>sight</u> in their communication.
- Honey bees do special dances to tell others the direction and distances to food and water.
- Morse code consists of dots and dashes.
- Fire flies produce flash lights to warn off predator or to attract a mate
- Whales use <u>sound</u> energy to communicate but fireflies use <u>light</u> energy.
- In Morse code short beeps known as dots and long beeps known as dashes.
- 15 <u>humpback whales</u> communicate with each other by using the songs.
- Nurse ants are responsible for sending smelly message when amount of food decreases.

QUESTION 05 Write the scientific term

- 1 They are objects that don't allow light to pass through. opaque
- 2 It is the organ of sight that is affected by light in human and animals.
- A device (tool) human use to see in the dark.

 night vision
 goggles
- The main source of light.
- It is a visible form of energy that travels in form of waves.
- 6 It is from nocturnal animals can turn its head 180 degree and has long tail.
- It is a thin layer at the back of some animal's eyes reflects light.
- 8 They are materials objects that allow light to pass through.
- Sense organ that can detect light energy.
- It is a device help blind person in walking by emitting a high- pitched sounds.

tapetum lucidum

eye

sun

light

tarsier

transparent materials

Eye

Blind people cane



SCIENCE QUESTIONS BANK PRIMARY 4 - FIRST TERM PRIMARY 4 - FIRST TERM

It is a code that use symbols in a pattern to give a specific meaning according to the arrangement of letter in a word.

writing

12 It is a pattern that has meaning.

Code

It is a simple code consists of short beeps (dots) and long beeps(dashes).

morse code

The short beeps of morse code.

dots

It is a code in form of sounds used to transfer information.

language

QUESTION 06

Give reason....?

- Nocturnal animals can see in the dark

 Because of tapetum lucidum
- When light fall on object, we can see it
- Because of light reflection (light fall from light source on object then it reflect to our eyes)
- Fishing cat eyes glow in the dark
- mirror-like membrane at the back of the eye that reflects the light falls on it.
- Moon is not considered as a source of light

 Because it reflects the light of the sun that falls on it.
- We can see objects behind transparent materials

 Because transparent materials allows most of light to pass through it.
- We can see objects.
 - Because of light reflection.
- The tapetum lucidum is very important in some nocturnal animal.

 Allow them to see in the dark so they can hunt or avoid to being hunted.
- The human body forms a shadow when light falls on it.
 - Because human body is opaque object.
- The pupils of nocturnal animals' eyes open wider than human's eyes

 To allow more light to enter the eye.
- When light fall on mirror it reflects in one direction
 - Because mirror is a shiny and smooth surface.
 Whales use hearing sense as songs tones
- To communicate with each other.





- Fire flies use its wings to form different flash patterns 12 to warn off predators or to attract a mate
- People use a rescue flare 13 To communicate for getting help
- The nurse ants send smelly message to scout ants 14 To alert the scout ants that the food is low.
- People use signal fires (15) To communicate over distances.
- Bees do special dances (figure eight) (16) To tell other bees the correct direction and distance to food and water (to communicate with each other).
- blind person use special cane during walking 17 Because it makes vibration to tell the blind person using it where objects around him located.
- Humans use reading, writing and speaking 18 To communicate with each other.

What happened if?

- light fall on a book. 1
 - Light will reflect on our eyes so we can see the book.
- Nocturnal animals don't have tapetum lucidum.
- They cannot see in the dark.
- Light falls on a mirror. 3
 - Light rays will reflect in one direction.
- Light falls on rough surface such as painted surface. 4 Light rays will (scattered) reflect in different directions.
- Light fall on transparent object as glass window.
 - Light will pass through it and I can see objects through it.
- S Next Co When fire flies want to warm off predator or attract mate It uses its wings to produce flash light
- A danger becomes close to the colony of ants. 7 Solider ants send smelly messages
 - The sound waves produced by a bat hits an insect.
- (8) The sound waves return back to the bat inform of echo so bat can detect the place of insect.



- We use flash LED light near fireflies
- Fireflies responded by flashing back the same flash pattern at the same time.
- Scout bee becomes very close to a flower.
 - It dances one dance.
- The amount of food in a colony of ants decreases.

 Nurse ants produce smelly message to scout ants.
- The cane of a blind person picks up echo.
- The cane changes echo to vibration that the blind person senses it by his thumb.
- A scout bee becomes far away from the flower.

 It dances three or more dances.

Answer the following

- Complete after noticing the following figure What happens until you see this apple?
 - The light falls on the <u>apple</u> then it is reflected on the eyes – so the eyes transmit the message to the <u>brain</u> then he interprets it and translates it, so we see the apple.
- 2 Look at the following figures, then answer the questions below:



- a. The surface in figure (a) is **smooth (mirror)** Because **the light rays reflected in one direction**
- b. The surface in figure (b) is <u>rough (wood or cloth)</u> Because <u>the light rays</u> <u>reflected in different directions</u>
- c. In the previous two figures, the falling and reflected rays show that light travels in **straight** lines.
- d. The surface in figure (a) may be(plastic wood mirror cloth)





(3) Classify the following in this table

(Mirror – cloth – metal – wood – paper)

Rough surface	Smooth surface
Wood – cloth - paper	Mirror – metal

(Lenses – rock- wood – air – glass – metal – water – human)

Opaque objects	Transparent objects
Rock- metal - human - wood	Water – glass – air - lenses

(4) Choose from column (A) what suit it in both column (B):

(A)			(B)	
1	Human	(a)	Reflect sun light.	
2	moon	(b)	the main source of ligh <mark>t.</mark>	
3	fishing cats	(6)	are nocturnal animals that have excellent night vision.	
4	sun		need night vision goggle to see in the dark.	

5 Look at the following pictures then answer the questions

Rise the thumb up a kind of

a codes

b colours

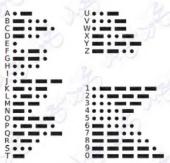
© waves

d light



6 Look at the following pictures then answer the questions

This figure represents morse code which is consists of dots and dashes



تم بحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

